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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,526	08/16/2001	Arindam Das-Purkayastha	B-4274 618998-3	3735
36716 7	590 09/16/2005		EXAM	INER
LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			CHAI, LONGBIT	
			ART UNIT	PAPER NUMBER
			2131	•
			DATE MAILED: 09/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/931,526	DAS-PURKAYASTHA ET AL.			
		Examiner	Art Unit			
		Longbit Chai	2131			
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet v	vith the correspondence address			
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat e period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory tre to reply within the set or extended period for reply will, by treply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC y statute, cause the application to become a	a reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on	04 August 2005.				
-	This action is FINAL . 2b)⊠ This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) is/are pending in the app 4a) Of the above claim(s) is/are wi Claim(s) is/are allowed. Claim(s) <u>1-61</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	thdrawn from consideration.				
Applicati	ion Papers					
10)⊠	The specification is objected to by the Ex. The drawing(s) filed on 16 August 2001 is Applicant may not request that any objection Replacement drawing sheet(s) including the other oath or declaration is objected to by the	s/are: a)⊠ accepted or b)⊡ c to the drawing(s) be held in abeya correction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority ι	under 35 U.S.C. § 119					
a)(Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	uments have been received. uments have been received in e priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
2) Notic 3) Infor	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-9- mation Disclosure Statement(s) (PTO-1449 or PTO/ ser No(s)/Mail Date	48) Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)			

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DETAILED ACTION

1. This action is in response to the Appeal Brief filed on August 4, 2005. Claims 1 – 6 were originally received for consideration. Per the amendment received on December 14, 2004, new claims 7 – 61 were added and the claims 1 – 6 as pending in the application. Claims 1 – 61 are currently being considered and the restriction requirement has been withdrawn.

Response to Arguments

2. In view of the Appeal Brief filed on August 4, 2005, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1 – 19, 22 – 37, 42 – 55 and 60 – 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grawrock (Patent Number: 6678833), in view of Saunders (Patent Number: 6209099), and in view of CCIMB-99-031 ("Common Criteria for Information Technology Security Evaluation", August.1999 Version 2.1).

As per claim 42, Grawrock teaches a method for establishing communications between a computer entity and a user, comprising:

presenting a request from the user to a trusted device associated with a computer entity to provide an integrity metric calculated for the entity by the trusted device and containing values indicative of one or more characteristics of the entity (Grawrock: Column 4 Line 10 – 12 and Column 4 Line 35 – 40);

Examiner notes Grawrock teaches using the Trust Platform Module (TPM) as the trusted 3rd party to provide target information metrics for verification by the trusted device either internally or externally (Grawrock: Column 4 Line 10 – 12 and Column 4 Line 35 – 40). However, Grawrock does not disclose explicitly about that particular trusted device.

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Saunders teaches the use of security ASIC as the trusted device (Saunders: Figure 1 Element 15, Figure 2, Column 2 Line 42 – 46, Column 1 Line 43 – 50, Column 1 Line 14 – 17 and Column 3 Line 1 – 5).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Saunders within the system of Grawrock because Saunders providing an effective method and system for testing one or more components of a data processing system in order to determine the authenticity of the tested component or components (Saunders: Column 1 Line 30 – 34).

presenting to the user a response from the trusted device including an integrity metric calculated for the entity by the trusted device (Saunders: Column 3 Line 47 - 50: the system and user as a whole is considered as a complete computer entity);

comparing at the user values in the integrity metric calculated for the entity by the trusted device (Saunders: Column 3 Line 47 - 50) with authenticated values provided for the entity by a trusted party (Grawrock: Column 4 Line 36 - 40 and Column 3 Line 65 - 67: TPM is the trusted 3^{rd} party); and

Grawrock as modified does not teach selecting at the user a level of trust for the entity from a plurality of predefined levels of trusts available to the user based on at least one value in the integrity metric calculated for the entity by the trusted device.

CCIMB-99-031 teaches selecting at the user a level of trust for the entity from a plurality of predefined levels of trusts available to the user based on at least one value in the integrity metric calculated for the entity by the trusted device (CCIMB-99-031: Page 14 3rd Para, Page 15 1st Para, Page 41 Last Para and Page 48 Last Para).

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of CCIMB-99-031 within the system of Grawrock as modified because CCIMB-99-031 teaches the prevention of system tampering by assigning a trusted assurance rating of the countermeasures, which gives grounds for confidence in their proper characteristics (CCIMB-99-031: Page 15 1st Para).

As per claim 1, 6, 7 and 24, the claim limitations are met as the same reasons as that set forth in rejecting claim 42.

As per claim 2, Grawrock as modified further teaches the trusted device is arranged to acquire an integrity metric of the computer entity (Grawrock: Column 3 Line 62 – Column 4 Line 9).

As per claim 3, Grawrock as modified does not teach the trust level is determined by comparing the value of the at least one characteristics with a specified value.

Trostle teaches the trust level is determined by comparing the value of the at least one characteristics with a specified value (Grawrock: Column 4 Line 6 – 9 and CCIMB-99-031: Page15 1st Para: assigns an assurance rating of the countermeasures, where the countermeasures are the verification results of a plurality of metrics as taught by Grawrock).

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As per claim 4, Grawrock as modified further teaches the plurality of trust levels are determined base upon a plurality of specified values associated with a plurality of characteristics of a computer entity (Grawrock: Column 4 Line 6-9).

As per claim 5, Grawrock as modified further teaches the plurality of trust levels are determined based upon a plurality of specified values associated with characteristics for a plurality of computer entities (Grawrock: Column 4 Line 6 – 9 and CCIMB-99-031: Page15 1st Para: assigns an assurance rating of the countermeasures, where the countermeasures are the verification results of a plurality of metrics as taught by Grawrock).

As per claim 8, 25 and 43, Grawrock as modified further teaches the trusted device is hardwired to the computer entity (Saunders: Figure 1 Element 15).

As per claim 9, 26 and 44, Grawrock as modified further teaches the trusted device is configured to control the boot process of the computer entity (Saunders: Figure 3 Element 38 / 39 / 40).

As per claim 10, 27 and 45, Grawrock as modified further teaches the trusted device is configured to not respond to the request for the integrity metric if the boot process of the computer entity was not controlled by the trusted device (Saunders:

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Figure 3 Element 28: no further response from the trusted device if the boot key is not entered and configured).

As per claim 11, 28 and 46, Grawrock as modified further teaches the trusted device is comprised of a plurality of components hardwired to the computer entity (Saunders: Column 2 Line 42 – 45).

As per claim 12, 29 and 47, Grawrock as modified further teaches the trusted device is configured to contain one or more of a public encryption key, a private encryption key, and one or more authenticated values provided for the entity integrity metric by the trusted party (Saunders: Column 3 Line 36 – 38; Grawrock: Column 4 Line 15 – 18).

As per claim 13, 30 and 48, Grawrock as modified further teaches the trusted device is configured to calculate the integrity metric by generating a digest of BIOS instructions in the BIOS memory of the entity (Saunders: Figure 3 Element 38 / 39 / 40).

As per claim 14, 31 and 49, Grawrock as modified further teaches the trusted device is configured to calculate the integrity metric by measuring one or more values of configuration information regarding one or more components of the entity (Saunders: Column 2 Line 42 – 45).

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As per claim 15, 32, 36, 50 and 54, Grawrock as modified further teaches the components of the entity are selected from among the group of components comprising hardware components and software components (Saunders: Column 2 Line 42 - 45; Grawrock: Column 4 Line 1 - 6).

As per claim 16, 33 and 51, Grawrock as modified further teaches wherein the components of the entity are selected from among the group of components comprising the BIOS, ROM, operating system loader, and operating system of the entity (Grawrock: Column 4 Line 3-6).

As per claim 17, 34 and 52, Grawrock as modified further teaches the configuration information measured for at least one of the components comprises one or more of certificate information, last update information, latest update version information, and previous update information (Grawrock: Column 4 Line 15 – 18).

As per claim 18, 35 and 53, Grawrock as modified further teaches the trusted device is configured to calculate the integrity metric by engaging in predetermined interactions with one or more components of the entity and acquiring the values of the responses of the one or more components (Saunders: Column 1 Line 43 – 50).

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As per claim 19, 37 and 55, Grawrock as modified further teaches the response received from the trusted device includes the authenticated values provided by the trusted party (Grawrock: Column 4 Line 35 – 40).

As per claim 22 and 60, Grawrock as modified further teaches initiating data transfer to the entity in accordance with the selected trust level (CCIMB-99-031: Page 48 Last para; Saunders: Column 3 Line 39: if the trust level is not accountable (i.e. invalid verification), the entire process is stop).

As per claim 23 and 61, Grawrock as modified further teaches initiating data transfer to the entity in accordance with the selected trust level comprises transferring no data (CCIMB-99-031: Page 48 Last para; Saunders: Column 3 Line 39: if the trust level is not accountable (i.e. invalid verification), the entire process is stop).

2. Claims 20 – 21, 38 – 39, 40 – 41 and 56 – 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grawrock (Patent Number: 6678833), in view of Saunders (Patent Number: 6209099), in view of CCIMB-99-031 ("Common Criteria for Information Technology Security Evaluation", August.1999 Version 2.1), and in view of Stoltz (Patent Number: 6615264).

As per claim 20, 38 and 56, Grawrock as modified does not disclose expressly generating a nonce to pass to the trusted device with the request.

Stoltz teaches generating a nonce to pass to the trusted device with the request (Stoltz: Column 17 Line 64 – 66 and Column 18 Line 1 – 5: nonce is a random number).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Stoltz within the system of Grawrock as modified because Stoltz teaches a security enhanced method to authenticate the request for secure information either in a standalone computer system, in any other computer systems or in a client-server system (Stoltz: Column 3 Line 65 – Column 4 Line 2, Column 4 Line 9 – 12, Column 17 Line 64 – 66 and Column 18 Line 1 – 5).

As per claim 21, 39 and 57, Grawrock as modified further teaches the response from the trusted device includes the nonce received with the request (Stoltz: Column 18 Line 46 - 47).

As per claim 40 and 58, Grawrock as modified does not disclose expressly the request includes input data.

Stoltz teaches the request includes input data (Stoltz: Column 17 Line 64 – 66 and Column 18 Line 1 – 5: random number is included as part of the request). See the same rationale address above in rejection claim 20.

As per claim 41 and 59, Grawrock as modified teaches the response includes the input data processed with the private encryption key (Stoltz: Column 17 Line 64 – 66,

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Column 18 Line 1 – 5 and Column 2 Line 33 – 34: the request / response message is

encrypted).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai Examiner Art Unit 2131

LBC

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